Safety Data Sheet

1 Manufacturer Information

Company Name	Ku Ping Enterprise Co.,Ltd	Ku Ping Enterprise Co.,Ltd			
Address	5.LANE 302,HSIN SHUH I	5.LANE 302,HSIN SHUH RD.,HSIN CHUANG CITY,TAIPEI HSIEN,TAIWAN,R.O.C			
Person in charge	Tony Yang	Tony Yang			
Emergency Pone #	+886-2-82013987-9	+886-2-82013987-9 Fax # +886-2-82012388/82012368			
Item Name	Solder	Solder			
Alloy composition	Lead-free Sn99.3/Cu0.7	Lead-free Sn99.3/Cu0.7			

2 Hazards Identification

Physical State and Appearance		Solid
Emergency Overview		Warning ! Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.
Routes of Entry		Inhalation.Ingestion.
	Eyes	May be causing irritant in case of eye contact
Potential Acute Health Effects	Skin	This product may be hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
	Inhalation	Fumes and/ or dusts produced by this product may be hazardous in case of inhalation.
	Ingestion	This product may be hazardous in case of ingestion.
Potential Chronic Health Effects		Chronic effects: Fumes and /or dusts produced by this product may be hazardous in case of ingestion, of inhalation. This product may be hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant). Non-corrosive for skin. Non-permeator by skin.
Medical Conditions Aggravated by Overexposure		Repeated or prolonged exposure is not known to aggravate medical condition.
Overexposure/ Signs/ Symptoms		N/A

3 Hazardous Ingredients

	Hazardous Components							
Common Name	Chemical Formula	weight %	CAS. No.	TWA	STEL	CEILING	LD 50	LC 50
Tin	Sn	99.3	7440-31-5	2	4	N/A	N/A	N/A
Silver	Ag		7440-22-4	0.01	0.03	N/A	N/A	N/A
Copper	Cu	0.7	7440-50-8	0.2	N/A	N/A	N/A	N/A
Stibium	Sb		7440-36-0	0.5	1.5	N/A	N/A	N/A
Rosin	-	2.5~3.0	8050/9/7	0.1	N/A	N/A	N/A	N/A

4 First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with emollient.
	Wash clothing before reuse. Thoroughly clean shoes beofre reuse. Get medical attention.
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream.
	Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration.
Innatation	If breathing is difficult, give oxygen. Get medical attention.
Hazardous Inhalation	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel.
	Never give anything by mouth to an unconscious person.
	If large quantities of this material are swallowed, call a physician immediately.
	Loosen tight clothing such as a collar, tie, belt or waistband.
Hazardous Ingestion	N/A
Notes to Physcian	N/A

5 Fire Fighting Measures

Suitable extinguisher	Dry powdered type	
Undder high-temperature condition	n, do not use water directly that will prevent powder spreading to cause skin burning.	
Not applicable.		
Fire fighters must wear special protec		

6 Accidental Release Measures

Small Spill and Leak	Use approprite tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7 Handling and Storage

Handling	Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.
C (a man a m	Keep container tightly closed. Keep container in a cool, well-ventilated area.

8 Exposure Controls, Personal Protection

		Use process en	closures, local exhaust ventilation, or other engineering controls to keep airborne levels	
Engineering Protection		below recommended exposure limits.		
		If user operation	If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants	
		below the exposure limit.		
	Eyes	Splash goggles	».	
	Body	Lab coat.		
Personal Protection	Respiratory	Dust respirator	respirator. Be sure to use an approved/ certified respirator or equivalent.	
Fersonal Frolection		Wear appropriate respirator when ventilation.		
	Hands	Gloves.		
	Feet	Not applicable.		
Note: Suggested protective	clothing n	nay not be ad	lequate for a specific process. Consult a specialist before using.	
			Splash goggles. Full Suit. Dust respirator. Boots. Gloves.	
Personal Protection in case of a large Spill			A self contained breathing apparatus should be used to avoid inhalation of the product.	
			Suggested protective clothing might not be sufficient; consult a specialist	
			BEFORE handling this product.	

9 Physical and Chemical Properties

Physical State and Appearance	Solid grey color
Smell C	Odorless
Chemical Formula	Not applicable.
pH(1% Soln/ Water)	Not applicable.
Acid Value	Not available.
Boiling/ Condensation Point	Not available.
Melting/ Freezing Point	227°C
Critical Temperature	Not available.
Vapor Pressure	Not applicable.
Vapor Density	Not available.
Volatility	Not available.
Odor Threshold	Not available.
Odor	Not available.
Taste	Not available.
Color	sliver-grey.
Specific Gravity	7.38 (water =1)
Evaporation Rate	Not available.
VOC	Not available.
Viscosity	Not available.
LogKow	The product is insoluble in water and oil.
Ionicity (In Water)	Non-ionic
Dispersion Properties	Is not dispersed in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.
Solubility	Insoluble
Physcial Chemical Comments	Not available.

10 Stability and Reactivity

Stability and Reactivity	This product is stable.
Conditions of Instability	Stable in normal conditions. Over melting point, will emit toxic tin oxides. (Tin)
Incompatibility with Various Substances	Slightly reactive with oxidizing agents, acids, moisture.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.
Corrosivity	Not considered to be corrosive for matals and glass according to our database.
Special Remarks on Corrosivity	Not available.

11 Toxicological Information

	Fumes and/or dusts produced by this product may be hazardous in case of ingestion, of inhalation.
	This product may be hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant).
	Non-corrosive for skin. Non-permeator by skin.
	MUTAGENIC EFFECTS: Not available.
Toxic and Chronic Effects on Humans	TERATOGENIC EFFECTS : Not available.
	DEVELOPMENTAL TOXICITY: Not available.
	The product may be toxic to kidneys, lungs, liver, mucous membranes, upper respiratory tract, skin, eye,
	lens or cornea.
	Repeated or prolonged exposure to the substance can produce target organs damage.
	LD50: N/A
Toxicity to Animals	LC50: N/A
Special Remarks on Chronic Effects on Humans	Prolonged and repeated exposure to tin oxyde fumes may result in benigne pneumoconiosis (stannosis). (Tin)
Chronic Effects on Humans	N/A
Chronic Effects on Humans	Developmental Toxicity: N/A
Special Remarks on Other	MOLTEN METAL can cause severe Burns!
Toxic Effects on Humans	Fumes and dust may irritate eyes, digestive system and respiratory tract. (Tin)
Special Remarks on Toxicity on Animals	No additional remark

12 Ecological Information

Ecotoxicity	Unkown
BOD5 and COD	Unkown
Biodegradable/ OECD	Unkown
M_L:I:L.	Possibly hazardous short term degradation products are not likely.
Mobility	However, long term degradation products may arise.
Toxicity of the Products of Biodegration	The product itself and its products of degradation are not toxic.
Special Remarks on the	N/A
Products of Biodegradation	

13 Disposal considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste stream	N/A
Consult your local or regional authorities.	

14 Transport Information

UN Number : None	
UN Transportation name: IATA-Dangerous goods regulations	
Clasification: Non-DOT restrictive material	
Packing class: None	
Ocean pollution: No	
Special transport methods and remarks: N/A	

15 Regulatory Information

Compliant to Labor /Sanitary Regulations	
Standards of labor working environment regulating air density of hazardous materials	
Standards of waste handling and storage	
Identification rules on hazardous materials	
Safety rules of road transportation	

16 Other Information

Company	Ku Ping Enterprise Co.,Ltd
Person in Charge	Tony Yang
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DATE	2015/6/30